



Serious power for serious operations

QSK50 Tier 4 engine for mining applications



We're always evolving the QSK50, and it shows

The QSK50 Tier 4 builds upon its legendary robustness with enhanced engine power and improved reliability while in compliance with EPA Tier 4 and EU Stage V emissions regulations.

The QSK50 brings together two powerful technologies: the Cummins high pressure Modular Common Rail Fuel System (MCRS) and Selective Catalytic Reduction (SCR) System. The MCRS fuel system provides precise control of the fuel ejection event that results in lower noise, vibration and smoke, and optimized fuel economy. By using SCR technology, we're able to protect engine performance and power density, while improving fuel economy over previous engine models, without increasing heat rejection or the engine footprint, equating to best in class cost of production (COP).

These capabilities are available in a wide range of heavy-duty front-end loaders, excavators, and haul trucks, with engine power outputs from 1500 hp to 2000 hp (1119-1491 kW). Whatever you need, the QSK50 delivers.

Built to last, and then some

A smarter fuel system

Means optimal fuel economy, but more than that, it also creates a quieter and smoother environment for your equipment operators. The system provides constant high injection pressure regardless of engine speed or load condition, which results in smooth engine operation throughout the rpm range and increased low-end torque.

Performance filter technology

NanoNet® Advanced Media Technology filters out the smallest impurities that impede optimal engine performance. This technology extends the service intervals of your fuel filters while maintaining high efficiency and reducing downtime and maintenance costs.



Double the filter life

NanoForce® Air Filters can more than double your filter life, extend maintenance intervals, keep your engine running longer and improve COP.

Data is powerful too

Through Cummins PrevenTech® Mining, we can empower you with innovative digital solutions for remote engine monitoring, prognostics, and customer alert creation and notifications, which improve productivity, reduce costs, and optimize maintenance and servicing.

Service and support: We've got your back

Global support network

Distributor branches in over 190 countries to support your parts and service needs, no matter where your equipment is located.

Cummins Care

Our unique solutions center with experts who have specialized skill sets, experience, and in-depth knowledge, to help you problem-solve fast and assist you with your service and support needs.

Best warranty in the industry

QSK50 engines are backed by the best warranty in the industry, with full coverage for unlimited hours during the first year, extending through two years or 2,000 hours, whichever occurs first.

Major-components coverage continues through the third year or 10,000 hours, whichever occurs first. Extended protection plans are available.

QuickServe™ Online Mobile

With Cummins, one of the most comprehensive and powerful parts and service tools in the industry is all yours.



Breaking new ground with Planet 2050

In 2014, Cummins adopted its first comprehensive sustainability plan. Planet 2050 builds on this with 2050 aims and incremental 2030 goals. One of those goals is to partner with customers to reduce greenhouse gas (GHG) emissions from products in the field by 55 million metric tons. This is accomplished by improving the efficiency of our products.

For more information on Planet 2050, visit cummins.com.



Ratings

Engine model	Advertised HP (kW) @ RPM	Peak torque LB - FT (N•M) @ RPM
QSK50 2000	2000 (1491) @ 1900	5805 (7871) @ 1500
QSK50 1675	1675 (1249) @ 1800	5375 (7288) @ 1500
QSK50 1600	1600 (1193) @ 1800	5044 (6839) @ 1500
QSK50 1600	1600 (1193) @ 1800	5041 (6834) @ 1500
QSK50 1575	1575 (1175) @ 1900	5450 (7369) @ 1300
QSK50 1500	1500 (1119) @ 1900	5044 (6839) @ 1400

Specifications

Aspiration	Single-stage, turbocharged, aftercooled	Two-stage, turbocharged, aftercooled and intercooled
Displacement in (l)	50.3 (3069.5)	50.3 (3069.5)
Bore in (mm)	6.3 (159)	6.3 (159)
Stroke in (mm)	6.3 (159)	6.3 (159)
Length in (mm)	112.3 (2853)	104.6 (2656)
Width in (mm)	60.5 (1537)	72.9 (1852)
Height in (mm)	45.6 (1157)	73.9 (1878)
Engine type	V-16	V-16



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